

Roll No.....

D-18-Y

Total No. of Questions : 8]

[Total No. of Printed Pages : 2

HSEIIRKN15

6418-Y

BOTANY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

(Long Answer Type Questions)

5 Each

1. Define cross pollination. Name the contrivances that favour it and describe any *two* of them.

Or

Describe the process of double fertilization. What is its significance ?

2. What is multiple allelism ? Explain with the help of an example.

Or

Define genetic code. Point out its characteristics.

(Short Answer Type Questions)

3 Each

3. Why did Mendel select garden pea for his experiments ?

4. Define tissue culture. Name any *three* applications of tissue culture.

HSEIIRKN15—6418-Y

D-18-Y

Turn Over

(2)

- ✓ 5. Name the various interactions in a biotic community and describe any *one* of them.
- ✓ 6. Suggest any *three* measures for controlling pollution of our lakes.

(Very Short Answer Type Questions) 2 Each

- ✓ 7. The following very short answer type questions of 2 marks, each may be answered in a few words or few sentences or as may be required.

✓ (a) Point out the advantages of vegetative propagation in plants.

(Any *two* points)

✓ (b) What are the advantages of biogas over LPG.

✓ (c) Biofertilizers are more desirable than chemical fertilizers. Justify.

✓ (d) Name any *two* National Parks and *two* sanctuaries.

(Objective Type Questions) 1 Each

- ✓ 8. Choose the correct/most appropriate answer and write in your answer-book :

(i) Define natality rate.

(ii) Translation occurs in :

(a) Nucleus

(b) Cytoplasm

(c) Both (a) and (b)

(d) None of these

(iii) Succession on a bare rock represents

(iv) Water pollution is the most severe pollution problem in Kashmir.

(True/False)

(v) The breakdown of dead organic matter is carried out by the organisms called

HSEIIRKN15-6418-Y

D-18-Y